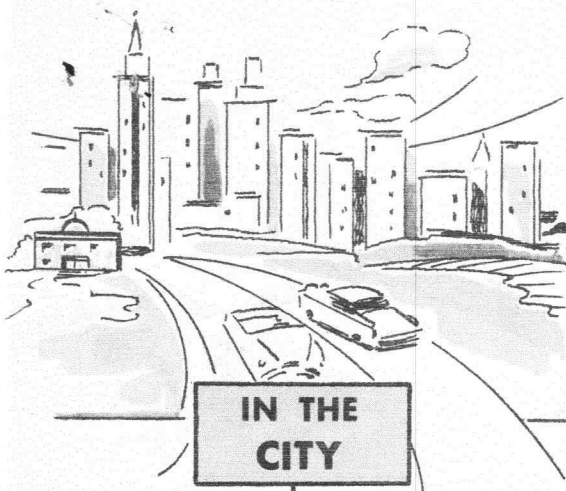
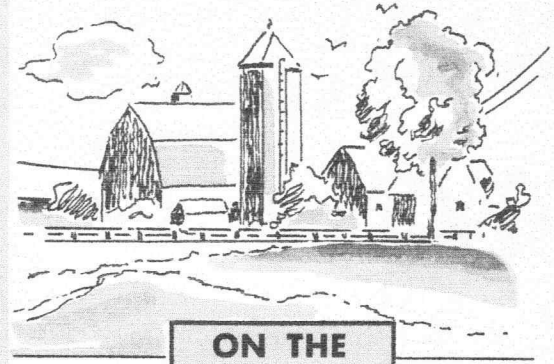
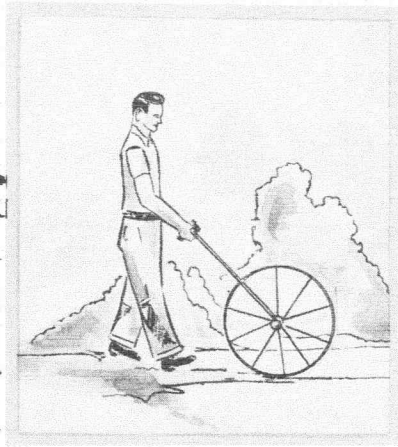


Box 30e 2015a-007



IN THE CITY

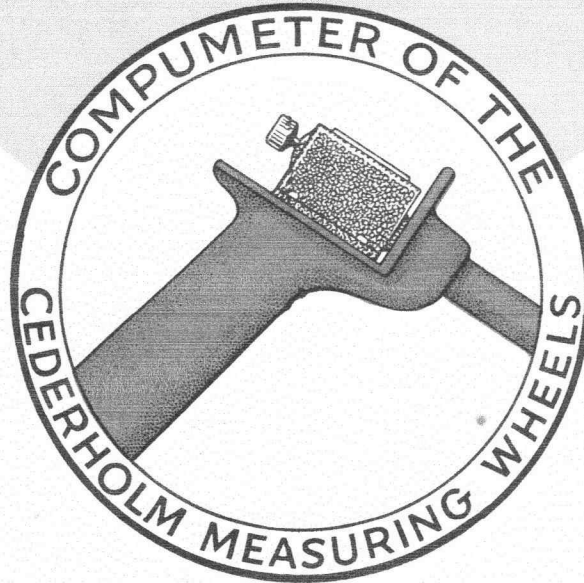


ON THE FARM

FOR EVERY MEASURING NEED

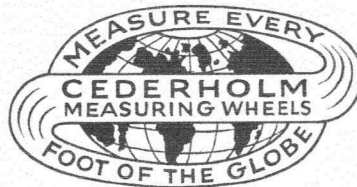
A CEDERHOLM MEASURING WHEEL

**ONE
MAN
OPERATION**



**LOW
COST
SAVES TIME**

- ✓ Transportation Companies
- ✓ Traffic Engineers
- ✓ Surveyors
- ✓ Assessors
- ✓ Realty Companies
- ✓ Road and Building Contractors

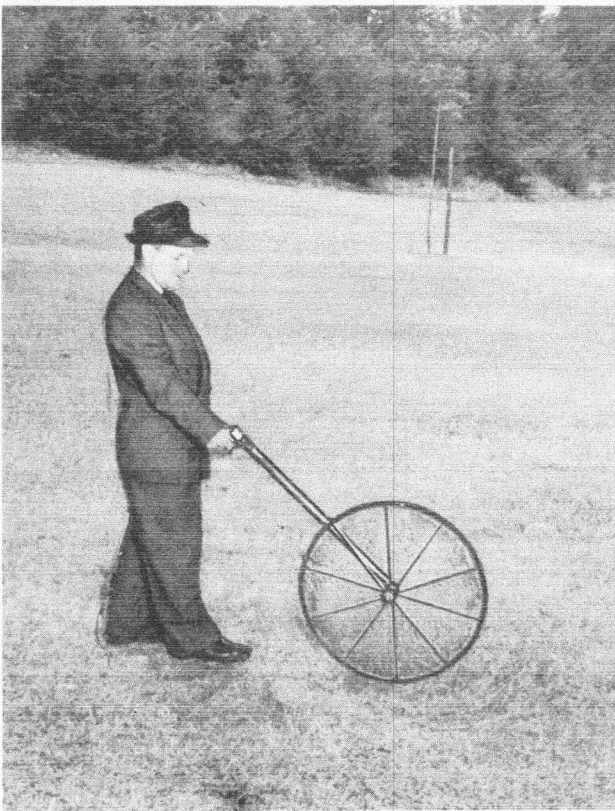


- ✓ Vocational-Agriculture Instructors
- ✓ Custom Contractors
- ✓ Crop Growers
- ✓ Irrigation Planners
- ✓ Government Agencies

CEDERHOLM MFG. CO.

BASTROP

TEXAS



MODEL AR - AS

The circumference of the wheel is 6.6 feet or 1/10 of a chain. The wheel has 10 spokes spaced exactly 1/100 chain apart with the starting point indicated by a spoke painted a contrasting color. The counter registers each revolution of the wheel.

NO COMPLICATED CONVERSION TABLES ARE NEEDED TO GET ACCURATE MEASUREMENTS IN ACRES. One man has the entire measuring operation at his finger tips. He merely pushes the wheel along the line of measurement and by a simple calculation, he readily obtains a highly accurate land measurement.

The surveyor's chain is 66 feet or 4 rods in length. Its great advantage is that square chains readily convert to acres when divided by 10. In practice this means that all that is necessary is to move the decimal point one place to the left.

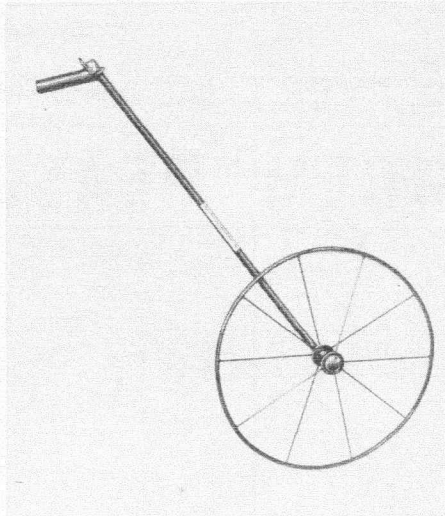
Model A. R. — With Reset Counter

Model A. S. — With Non-Reset Counter

Exclusive Features

- * All moving parts are totally inclosed. No miscounting or damage to the counter from tall grass and weeds.
- * For easy reading at all times, the counter is mounted on the handle in clear view of the operator.
- * All models are designed with the wheel on the right side to prevent kicking by the operator.

Model C. S. — C. R.



This model measures 5 feet in circumference with 10 spokes placed 6 inches apart so that one can record measurements in both feet and inches. This wheel is especially adapted for overland measurement. The counter registers once for each revolution of the wheel.

Model C. R. — With Reset Counter

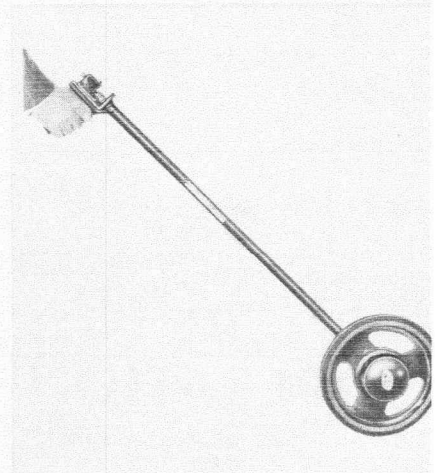
Model C. S. — With Non-Reset Counter

Model B. R.

This model measures 8'3" or 1/2 Rod in circumference. It may be used to determine acreage as well as for distance measurements.



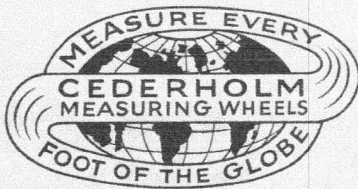
Model T. R.



Model T. R. — Measures 3 feet in circumference.

This model is a cast aluminum wheel and is equipped with roller bearings and rubber tire. It is particularly designed for use in conjunction with the towing bracket and remote drive which enable the driver to read the counter tally without leaving his seat. It is equally efficient when used as a hand-operated wheel.

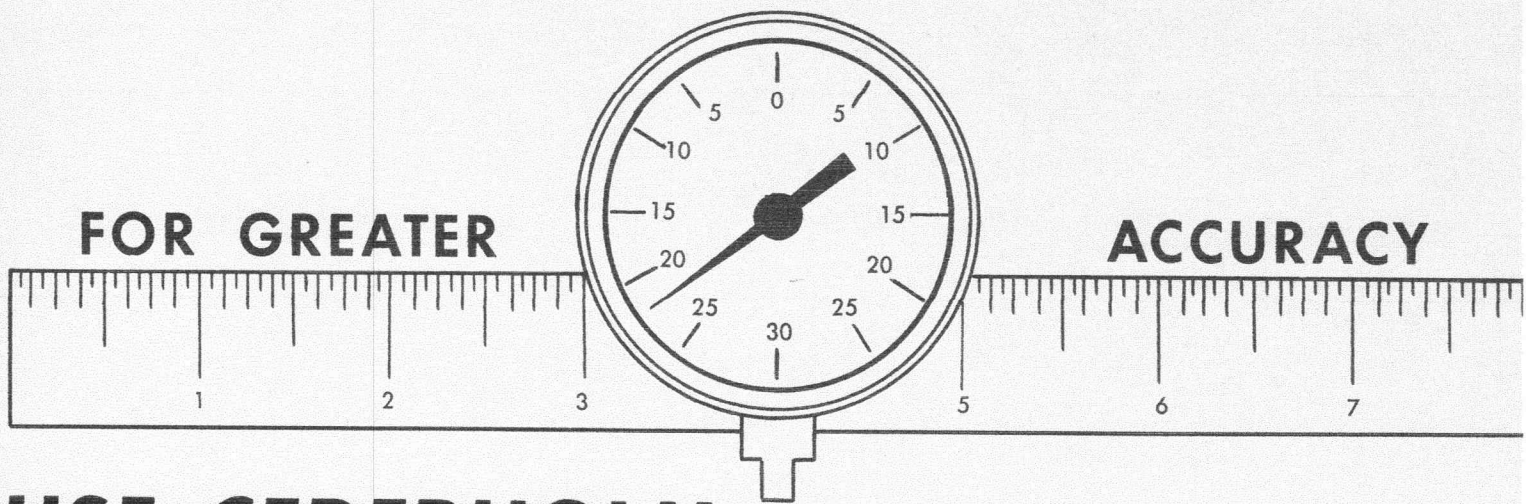
PATENTED
IN U. S. A.
No. 2,614,330



CEDERHOLM MF

BASTROP

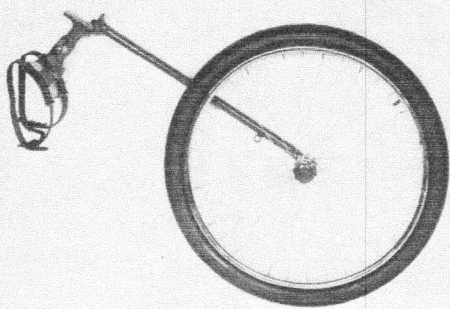
DON'T GUESTIMATE



USE CEDERHOLM MEASURING WHEELS

Model F. W. 300

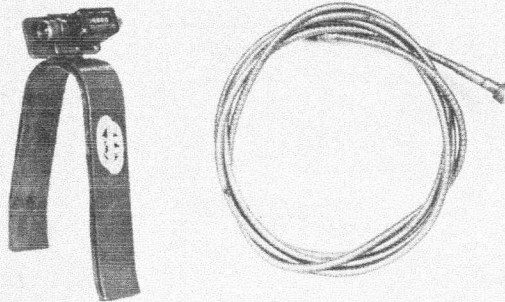
Model F. W. 300 — This model consists of an extra duty spoke wheel equipped with pneumatic tire, roller bearing hub and a tubular handle with all moving parts totally inclosed.



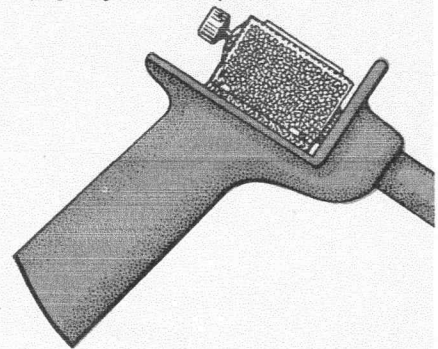
This wheel can be used as a hand-operated measuring wheel when the terrain prohibits the use of a vehicle. This model is used by bus companies in checking distance over routes, distance between set points, by overland road builders, and in checking gas consumption.

Part No. RD 200

PART NO. RD 200 — This attachment consists of a bracket and a flexible cable which provides a remote drive for the counter. The bracket fits over any automobile door and enables the driver to read the tally without leaving his seat. The counter can be easily removed from the handle and mounted on the door bracket. It is designed for use with Models T.R. and F.W. 300 and is especially useful when measuring off a preset distance.

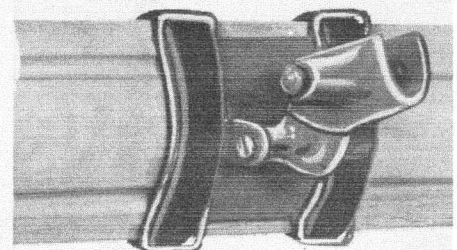


An outstanding feature is the pistol-grip handle. This design eliminates operator fatigue and insures accurate measurement by giving him complete control.



Part No. TA 100

PART NO. TA 100 — This towing bracket can be easily attached to the bumper of any vehicle and may be used in conjunction with any model wheel. The handle of the wheel fits into the bracket by pulling a snap lock which holds it firmly in place. The handle is released by merely pulling the snap lock.



CO.
TEXAS

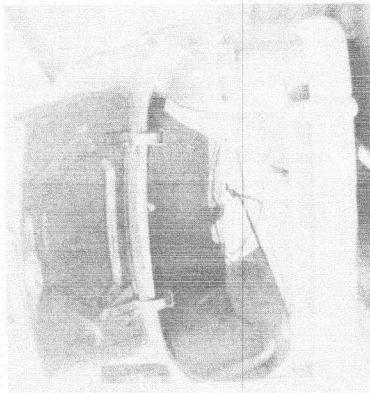
**GUARANTEED FOR
ONE FULL YEAR**



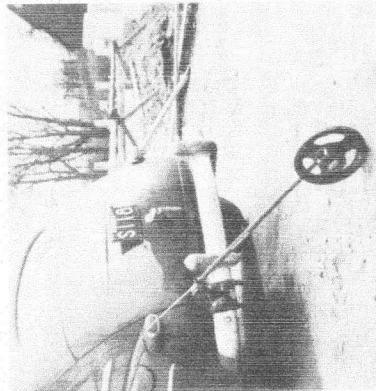
CEDERHOLM MFG. CO.

BASTROP, TEXAS

Cederholm Measuring Wheels



* The modern, stream-lined design and light weight of the Cederholm Wheels make them convenient to carry in the rear seat or luggage compartment of any car.



* All models with resettable counters can be towed by our special towing bracket which attaches to the bumper of any vehicle.

The Commonwealth of Massachusetts
University of Massachusetts
Amherst
 March 3, 1954

AGRICULTURAL ECONOMICS
 AND
 FARM MANAGEMENT DEPARTMENT

Cederholm Manufacturing Company
 South Worthington
 Massachusetts

Gentlemen:

For a number of years I have made good use of one of your measuring wheels. First, in my farm management class farm layout, have been teaching students the importance of a good farm layout. By showing the wheel I could demonstrate how to map a farm economically and efficiently. I also pointed out the value of showing the wheel in laying out fields for plowing, such as measuring fence lines, laying out fields for fertilizer, and finding out the results of various practices by obtaining an accurate record of yields per acre.

Outside of the classroom I have found the wheel invaluable in mapping farms for class work and in measuring farms in order to check the acreage in my farm appraisal work.

The Cederholm measuring wheel is a practical, economical, and efficient tool for a farmer who wishes to do a better job in the profitable operation of his farm business.

Sincerely yours,
Rollin H. Barrett
 Rollin H. Barrett
 Professor of Farm Management

RHB:d



AGRICULTURAL ECONOMICS
AND
FARM MANAGEMENT DEPARTMENT

The Commonwealth of Massachusetts
University of Massachusetts
Amherst

March 3, 1954

Cederholm Manufacturing Company
South Worthington
Massachusetts

Gentlemen:

For a number of years I have made good use of one of your measuring wheels. First, in my farm management class when I have been teaching students the importance of a good farm layout. By showing the wheel I could demonstrate how to map a farm economically and efficiently. I also pointed out other uses such as measuring fence lines, laying out fields for plowing, checking the application of fertilizer, and finding out the results of various practices by obtaining an accurate record of yields per acre.

Outside of the classroom I have found the wheel invaluable in mapping farms for class work and in measuring farms in order to check the acreage in my farm appraisal work.

The Cederholm measuring wheel is a practical, economical, and efficient tool for a farmer who wishes to do a better job in the profitable operation of his farm business.

Sincerely yours

Rollin H. Barrett

Rollin H. Barrett
Professor of Farm Management

RHB:d

DIRECTIONS FOR USING THE CEDERHOLM MEASURING WHEEL

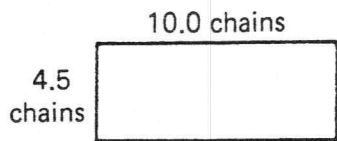
The **CEDERHOLM MEASURING WHEEL** is a scientifically designed instrument which will give you highly accurate measurements. Only one operator is needed when the **CEDERHOLM WHEEL** is used.

THE CHAIN UNIT. The surveyor's chain is 66 feet or 4 rods in length. Its great advantage is that square chains readily convert to acres **when divided by 10**. In practice, this means that all that is necessary is to move the decimal point **one place to the left**.

MODELS AR and PR. The circumference of these models is 6.6 feet or 1/10 of a chain. Each revolution of the wheel is registered on the counter which is mounted on the pistol grip handle. Both models are equipped with a resettable counter that can be set back to 0 by simply turning a knob on the counter. The model PR has about 60 pegs attached to the rim of the wheel and was designed for use in sandy soils to prevent slippage. It measures 6.6 feet around the outside of the pegs.

TO OPERATE. With the counter registering 0, push the wheel along the line of your first measurement. If measuring a simple rectangular field, all that is necessary are the length and width measurements. It is recommended that the recording of these distances be made in chains. Multiply length and width to get square chains, divide by 10 to get acres. In general, fields will be measured either as rectangles or triangles. The area of a triangle is figured by multiplying the base by the height and dividing by two.

EXAMPLES:



$$4.5 \text{ chains} \times 10.0 \text{ chains} = 45.0 \text{ sq. chains or } 4.5 \text{ acres}$$

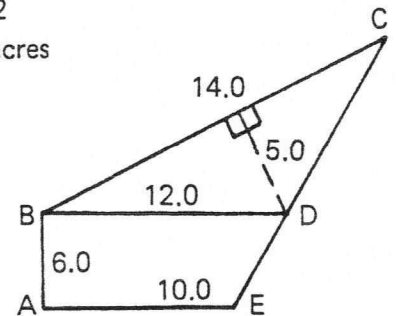
$$\text{Area of BDC} = \frac{5.0 \times 14.0}{2}$$

$$35 \text{ sq. chains or } 3.5 \text{ acres}$$

$$\text{Area of ABDE} =$$

$$6.0 \times \frac{10.0 + 12.0}{2} =$$

$$66.0 \text{ sq. chains} = 6.6 \text{ acres}$$



$$\text{Area of ABCE} = 6.6 \text{ acres} + 3.5 \text{ acres} = 10.1 \text{ acres}$$

Accuracy of the **CEDERHOLM WHEEL** will not be seriously affected by ordinary rough surfaces, but on deeply-ridged fields it may be desirable to make cross measurements on headland. Obstacles such as boulders and trees may be skirted by stopping the forward motion of the wheel and moving it to a parallel position.

An occasional drop of oil in the hub is the only maintenance required. Please oil the hub before using.

**CEDERHOLM MANUFACTURING COMPANY
BASTROP, TEXAS**

